

12-03-01

A

PATENT

11/29/01
J1054 U.S. PTO

Express Mail Label No.: EL823499201US
Date of Deposit: 11.29.2001

Case Docket No.: 2001P22393 US
Date: 11.29.2001

ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231
Box PATENT APPLICATION

Sir:

Transmitted herewith for filing is the patent
application of:

Inventor(s):

Ravi Bansal
Ning Xu

For: Automated Lung Nodule Segmentation Using Dynamic Programming and EM Based Classification

This application includes:

28 pages of specifications, including 18 claims and 1 abstract
1 title page
5 sheets of drawings, formal/ X informal containing 5 Figures
 photographs (design patent application only)

Also enclosed is:

 Declaration and Power of Attorney
 An assignment of the invention to Siemens Corporate Research, Inc..
 A certified copy of a application.
 Information Disclosure Statement pursuant to 37 CFR 1.56.

The filing fee has been calculated as shown below:

FOR:	(Col. 1) NO. FILED	(Col. 2) NO. EXTRA	OTHER THAN A SMALL ENTITY RATE FEE
BASIC FEE	XXXXXXXXXX	XXXXXXXXXX	\$ 740
TOTAL CLAIMS	18 - 20 =	x \$ 18 =	\$ 0
INDEP CLAIMS	3 - 3 =	x \$ 84 =	\$ 0
* MULTIPLE DEPENDENT CLAIM PRESENTED +\$ 280 =			\$ 740
TOTAL			\$ 740

- X Please charge my Deposit Account No. 19-2179 in the amount of \$ 740.00 duplicate copy of this sheet is enclosed.
- X The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 19-2179. A duplicate copy of this sheet is enclosed.
- X Any additional filing fees required under 37 CFR 1.16.
- X Any patent application processing fees under 37 CFR 1.17.
- X The Commissioner is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 19-2179. A duplicate copy of this sheet is enclosed.

J1050 U.S. PTO
09/998768
11/29/01

09998768 11/29/01

<u>X</u>	Any patent application processing fees under 37 CFR 1.17.
<u>X</u>	Any filing fees under 37 CFR 1.16 for presentation of extra claims.

Dated: 11.29.2001

Siemens Corporation
Intellectual Property Department
186 Wood Avenue South
Iselin, NJ 08830
Tel. +1 (732) 321 3191

Donald B. Paschburg
Registration No.: 33,753

VR

Table 1. Demographic characteristics of the study population	
Age (years)	65.4 ± 1.2
Gender (male/female)	102/108
Education (years)	12.5 ± 0.5
Marital status (married/divorced/widowed)	150/30/10
Occupation (retired/employed)	150/30
Income (USD/month)	1,200 ± 100
Comorbidities (hypertension/diabetes/cholesterol)	120/40/60
Medication (antidepressants/antipsychotics)	80/20
Alcohol consumption (yes/no)	30/170
Smoking status (current/former/never)	20/50/130
Family size (number of children)	2.5 ± 0.5
Living arrangement (alone/together)	30/170
Health insurance (yes/no)	150/30
Previous psychiatric history (yes/no)	40/160
Current psychiatric symptoms (anxiety/depression)	60/110
Physical health status (good/fair/poor)	100/50/50
Functional status (independent/dependent)	120/80
Social support (strong/weak)	100/100
Quality of life (high/low)	100/100
Life satisfaction (high/low)	100/100
Overall health (good/fair/poor)	100/50/50
Life expectancy (years)	15.0 ± 1.0
Healthcare utilization (yes/no)	150/30
Healthcare costs (USD/year)	500 ± 100
Healthcare satisfaction (yes/no)	100/100
Healthcare access (yes/no)	150/30
Healthcare quality (high/low)	100/100
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30
Healthcare accountability (yes/no)	150/30
Healthcare responsibility (yes/no)	150/30
Healthcare integrity (yes/no)	150/30
Healthcare honesty (yes/no)	150/30
Healthcare justice (yes/no)	150/30
Healthcare respect (yes/no)	150/30
Healthcare dignity (yes/no)	150/30
Healthcare privacy (yes/no)	150/30
Healthcare confidentiality (yes/no)	150/30
Healthcare security (yes/no)	150/30
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30
Healthcare accountability (yes/no)	150/30
Healthcare responsibility (yes/no)	150/30
Healthcare integrity (yes/no)	150/30
Healthcare honesty (yes/no)	150/30
Healthcare justice (yes/no)	150/30
Healthcare respect (yes/no)	150/30
Healthcare dignity (yes/no)	150/30
Healthcare privacy (yes/no)	150/30
Healthcare confidentiality (yes/no)	150/30
Healthcare security (yes/no)	150/30
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30
Healthcare accountability (yes/no)	150/30
Healthcare responsibility (yes/no)	150/30
Healthcare integrity (yes/no)	150/30
Healthcare honesty (yes/no)	150/30
Healthcare justice (yes/no)	150/30
Healthcare respect (yes/no)	150/30
Healthcare dignity (yes/no)	150/30
Healthcare privacy (yes/no)	150/30
Healthcare confidentiality (yes/no)	150/30
Healthcare security (yes/no)	150/30
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30
Healthcare accountability (yes/no)	150/30
Healthcare responsibility (yes/no)	150/30
Healthcare integrity (yes/no)	150/30
Healthcare honesty (yes/no)	150/30
Healthcare justice (yes/no)	150/30
Healthcare respect (yes/no)	150/30
Healthcare dignity (yes/no)	150/30
Healthcare privacy (yes/no)	150/30
Healthcare confidentiality (yes/no)	150/30
Healthcare security (yes/no)	150/30
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30
Healthcare accountability (yes/no)	150/30
Healthcare responsibility (yes/no)	150/30
Healthcare integrity (yes/no)	150/30
Healthcare honesty (yes/no)	150/30
Healthcare justice (yes/no)	150/30
Healthcare respect (yes/no)	150/30
Healthcare dignity (yes/no)	150/30
Healthcare privacy (yes/no)	150/30
Healthcare confidentiality (yes/no)	150/30
Healthcare security (yes/no)	150/30
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30
Healthcare accountability (yes/no)	150/30
Healthcare responsibility (yes/no)	150/30
Healthcare integrity (yes/no)	150/30
Healthcare honesty (yes/no)	150/30
Healthcare justice (yes/no)	150/30
Healthcare respect (yes/no)	150/30
Healthcare dignity (yes/no)	150/30
Healthcare privacy (yes/no)	150/30
Healthcare confidentiality (yes/no)	150/30
Healthcare security (yes/no)	150/30
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30
Healthcare accountability (yes/no)	150/30
Healthcare responsibility (yes/no)	150/30
Healthcare integrity (yes/no)	150/30
Healthcare honesty (yes/no)	150/30
Healthcare justice (yes/no)	150/30
Healthcare respect (yes/no)	150/30
Healthcare dignity (yes/no)	150/30
Healthcare privacy (yes/no)	150/30
Healthcare confidentiality (yes/no)	150/30
Healthcare security (yes/no)	150/30
Healthcare safety (yes/no)	150/30
Healthcare effectiveness (yes/no)	150/30
Healthcare equity (yes/no)	150/30
Healthcare transparency (yes/no)	150/30